

REMARKS

Reconsideration of the application is respectfully requested for the following reasons:

1. Amendments to Specification

The specification and abstract have been revised to correct grammatical and idiomatic errors, and to place the application in proper U.S. format (the addition to the abstract is taken directly from original claim 2, now included in claim 1). Because the changes are all formal in nature, it is respectfully submitted that they do not involve new matter.

2. Objection to Drawings

Fig. 1 has been amended by changing “VARIAL” to –VARIABLE–, as required in item 1 on page 2 of the Official Action. In addition, the spelling of “RESISTER” has been corrected to read –RESISTOR–.

2. Rejection of Claims 1-4 Under 35 USC §112, 2nd Paragraph

This rejection has been addressed by:

- a. amending claim 1 to clarify that only one gain amplifier is being recited, and by further amending claim 1 to clarify that “the input signals” are –the input analog signals–;
- b. amending claim 3 to clarify that the variable capacitor is actually a variable resistor (claim 1 now includes a recitation of the variable resistor, thereby correcting the antecedence error); and
- c. amending claim 4 to depend from claim 3 rather than claim 1.

In addition, it is noted that various additional amendments have been made to claim 1 to correct idiomatic and antecedence errors, and to improve readability. None of the amendments substantively affects the scope of claim 1 (except that the subject matter of claim 2 has been added to claim 1).

Serial Number 10/687,657

3. Rejection of Claim 1 Under 35 USC §102

This rejection has been rendered moot by the addition to claim 1 of each of the limitations of claim 2. The subject matter of claim 2 was indicated as allowable in item 6 on page 4 of the Official Action.

Having thus overcome each of the rejections made in the Official Action, withdrawal of the rejections and expedited passage of the application to issue is requested.

Respectfully submitted,

BACON & THOMAS, PLLC

A handwritten signature in black ink, appearing to read 'B. Urcia', with a long horizontal flourish extending to the right.

By: BENJAMIN E. URCIA
Registration No. 33,805

Date: January 19, 2005

BACON & THOMAS, PLLC
625 Slaters Lane, 4th Floor
Alexandria, Virginia 22314

Telephone: (703) 683-0500

NWB.S:\Producer\baul\Pending Q...Z\W\WANG 687657u01.wpd

Serial Number 10/687,657

AMENDMENTS TO DRAWINGS

Please amend Fig. 1 by changing “VARIAL RESISTER” to –VARIABLE RESISTOR–, as indicated in the attached replacement sheet.